

**Figure 1**

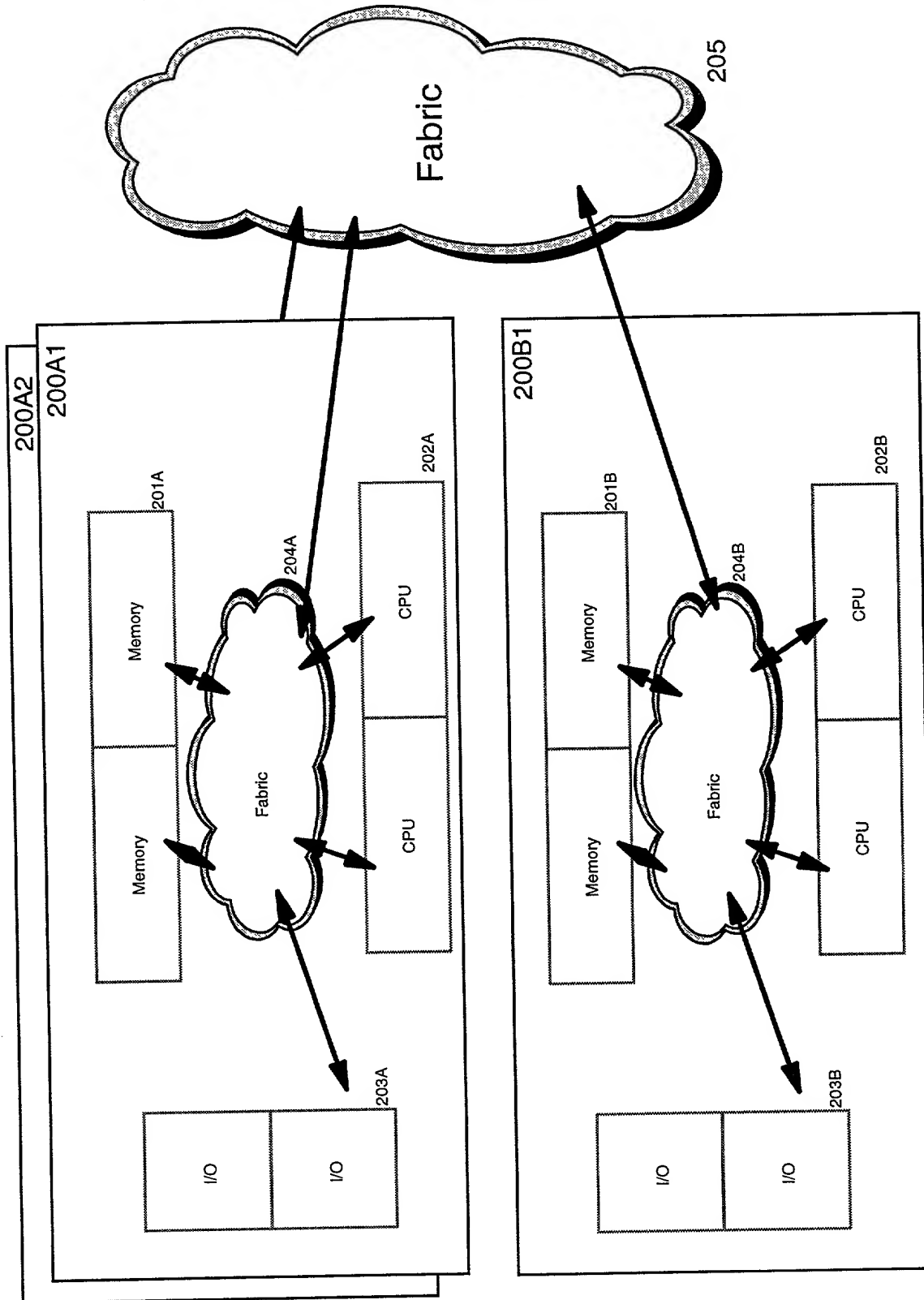


Figure 2

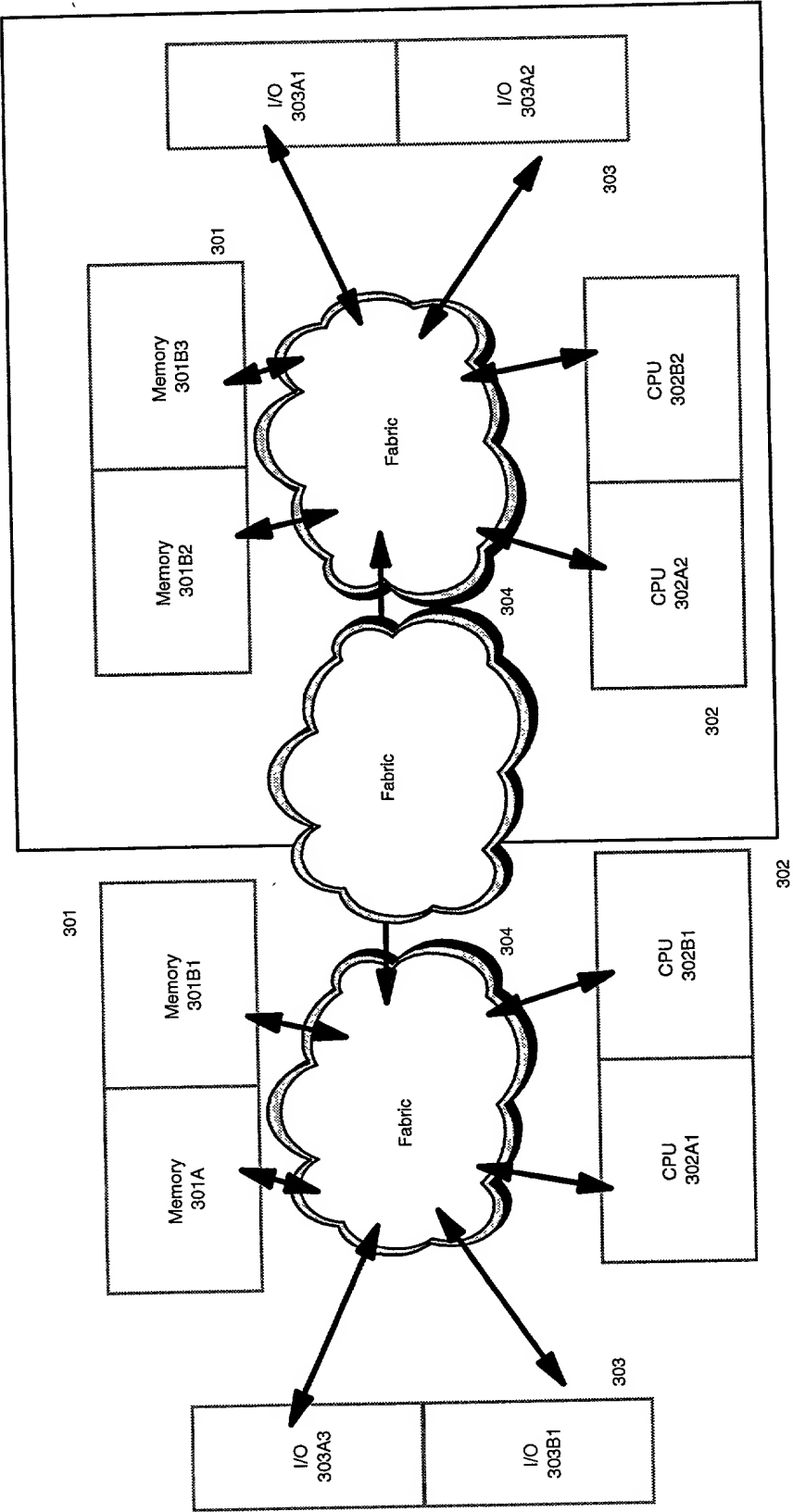


Figure 3

400

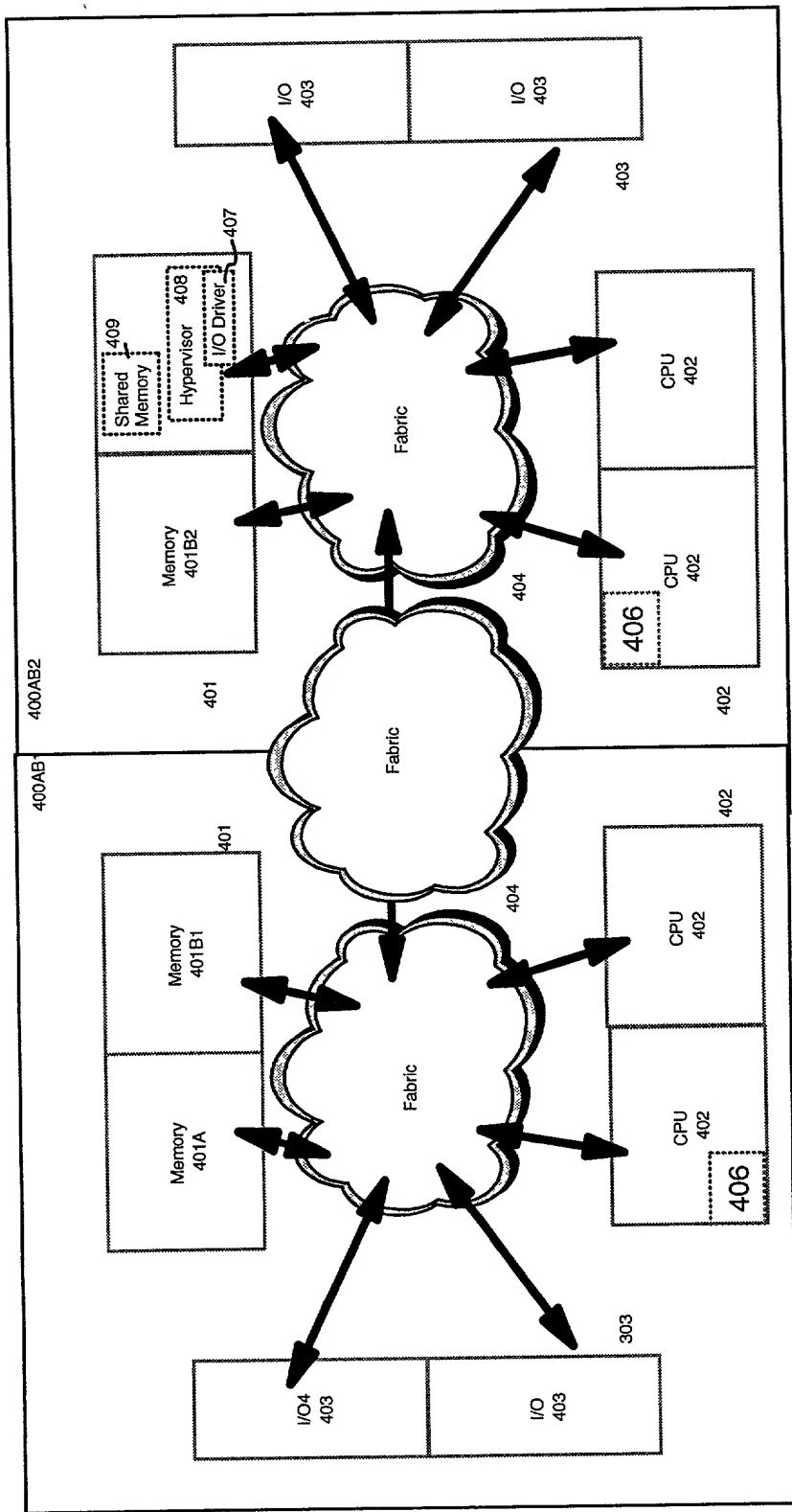
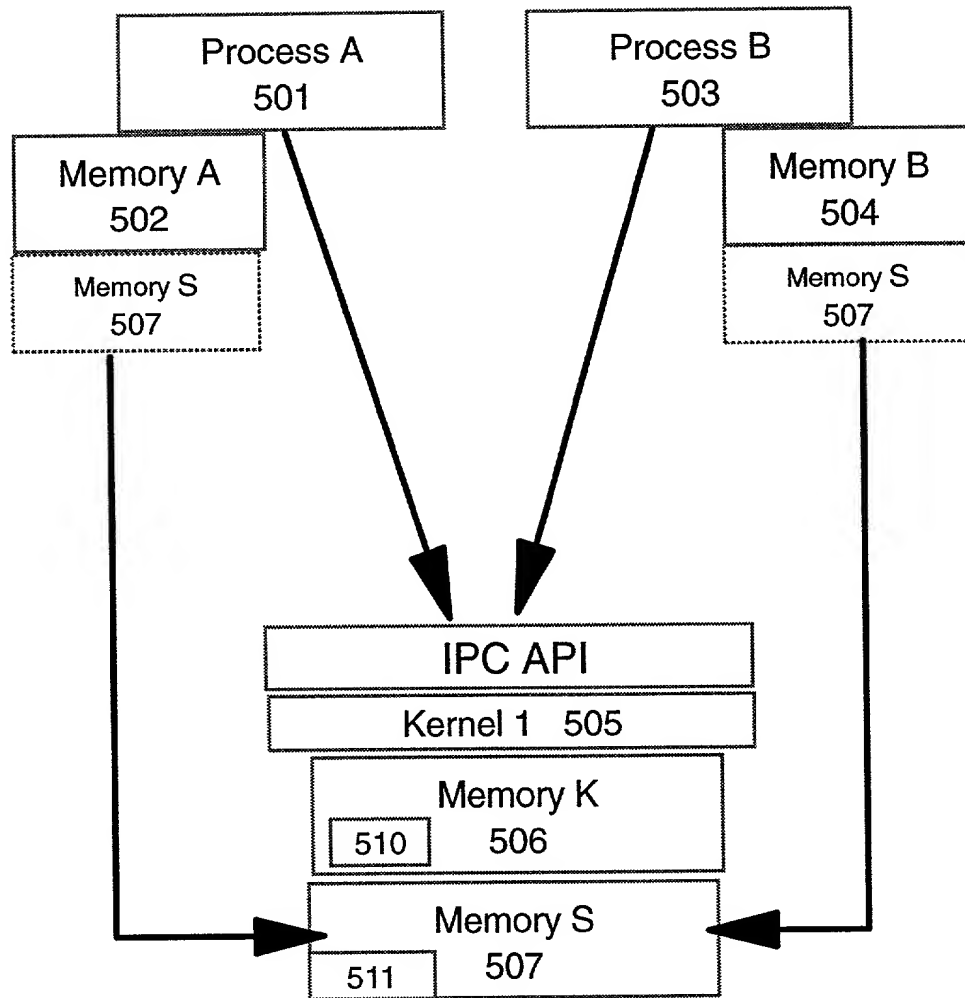


Figure 4

**Figure 5**

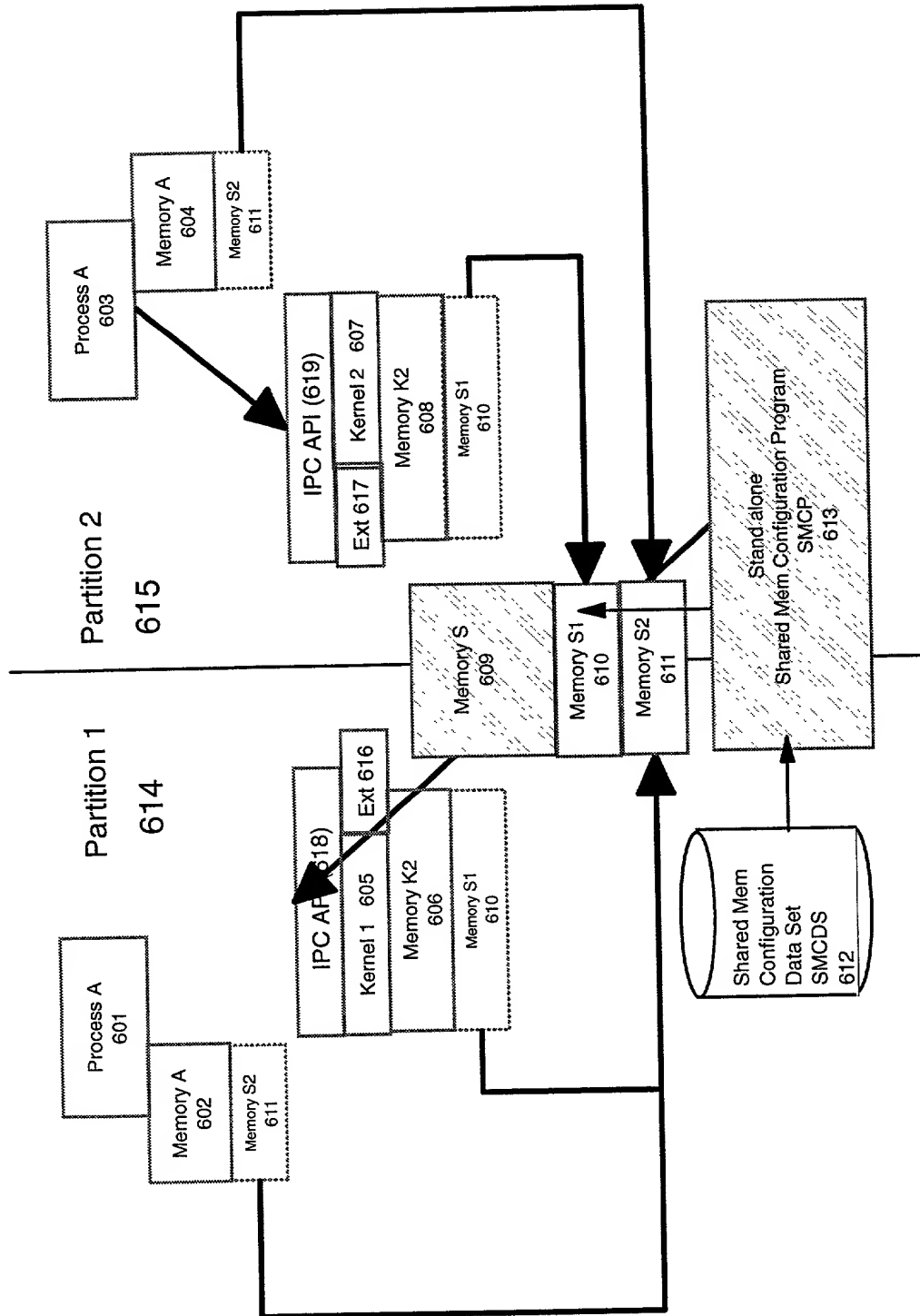


Figure 6

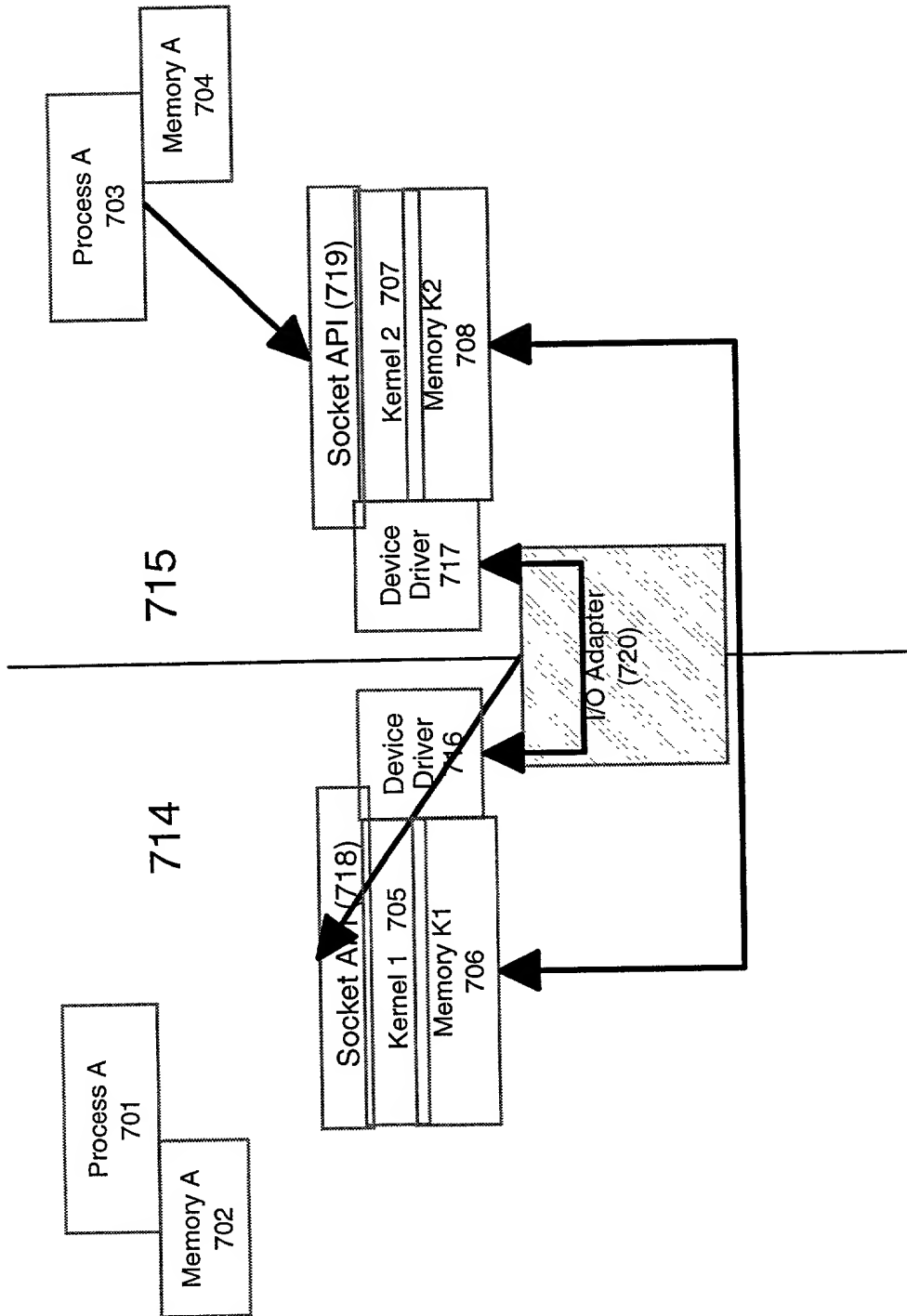


Figure 7A

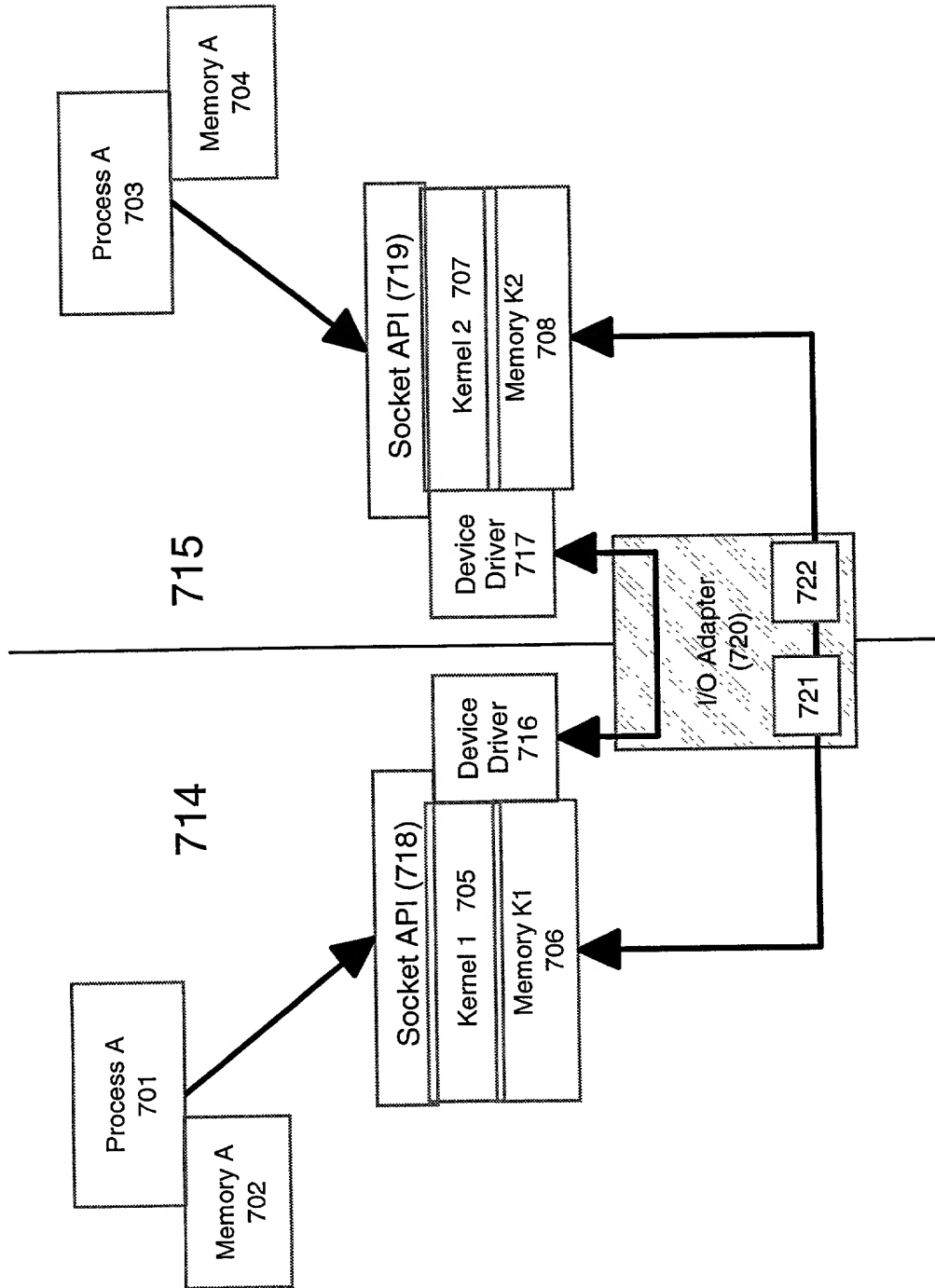
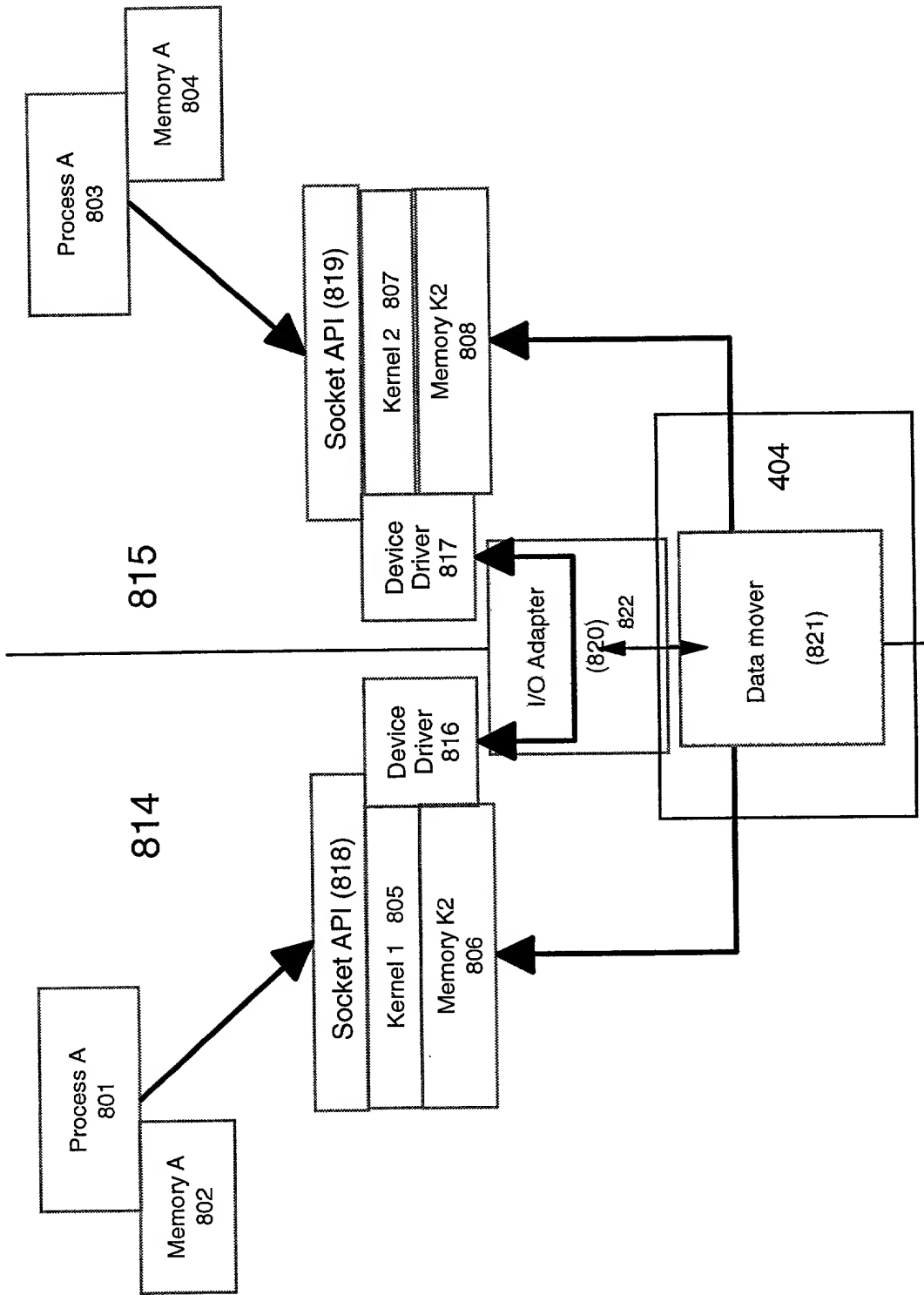


Figure 7B



**Figure 8**

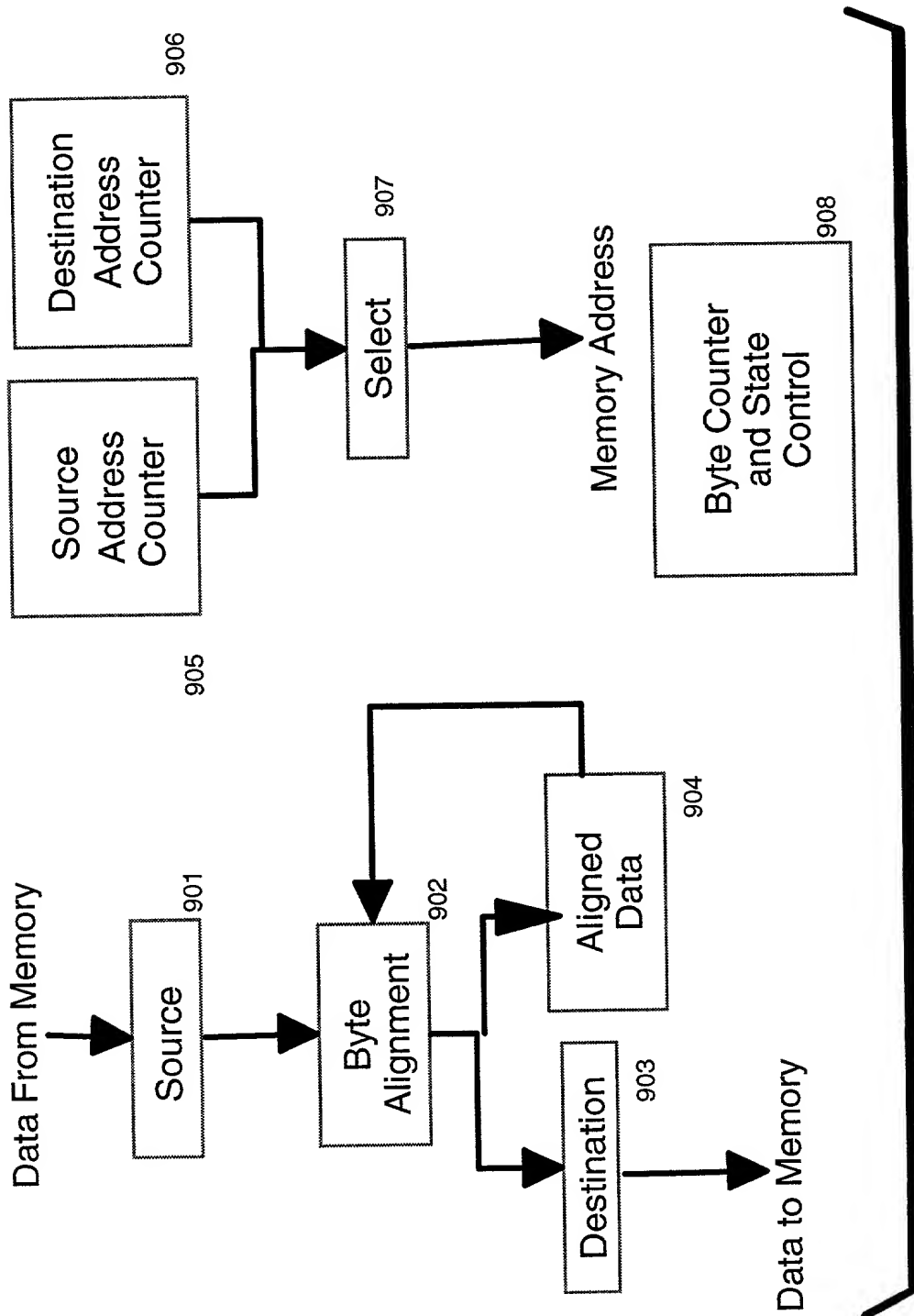


Figure 9

1000

MVXL	Count	Destination	Source
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**Figure 10**

1101. User calls Device Driver

- Supplies
  - Source Network ID
  - Source Offset
  - Destination Network ID

1102. Device driver transfers addresses to Adapter

1103. Adapter Translates Addresses

- Looks up Physical Base addresses from ID's (Table Lookup)
- Obtains Lock and current Destination Offset
- Adds offsets
- Checks bounds

1104. Adapter loads count and addresses in registers

1105. Adapter executes Data Move

1106. Adapter Frees Lock

1107. Adapter notifies device Driver which "Returns" to user

**Figure 11**

1201. User calls Device Driver

- Supplies
  - Source Network ID
  - Source Offset
  - Destination Network ID

1202. Device driver sends addresses to adapter

1203. Adapter Translates

- Looks up Physical Base addresses from ID's (Table Lookup)
- Obtains Lock and current Destination Offset\*
- Adds offsets
- Checks bounds
- Returns Lock and Physical addresses to Device Driver

1204. Device Driver executes Data Move

1205. Device Driver Frees Lock

1206. Device Driver Returns

**Figure 12**

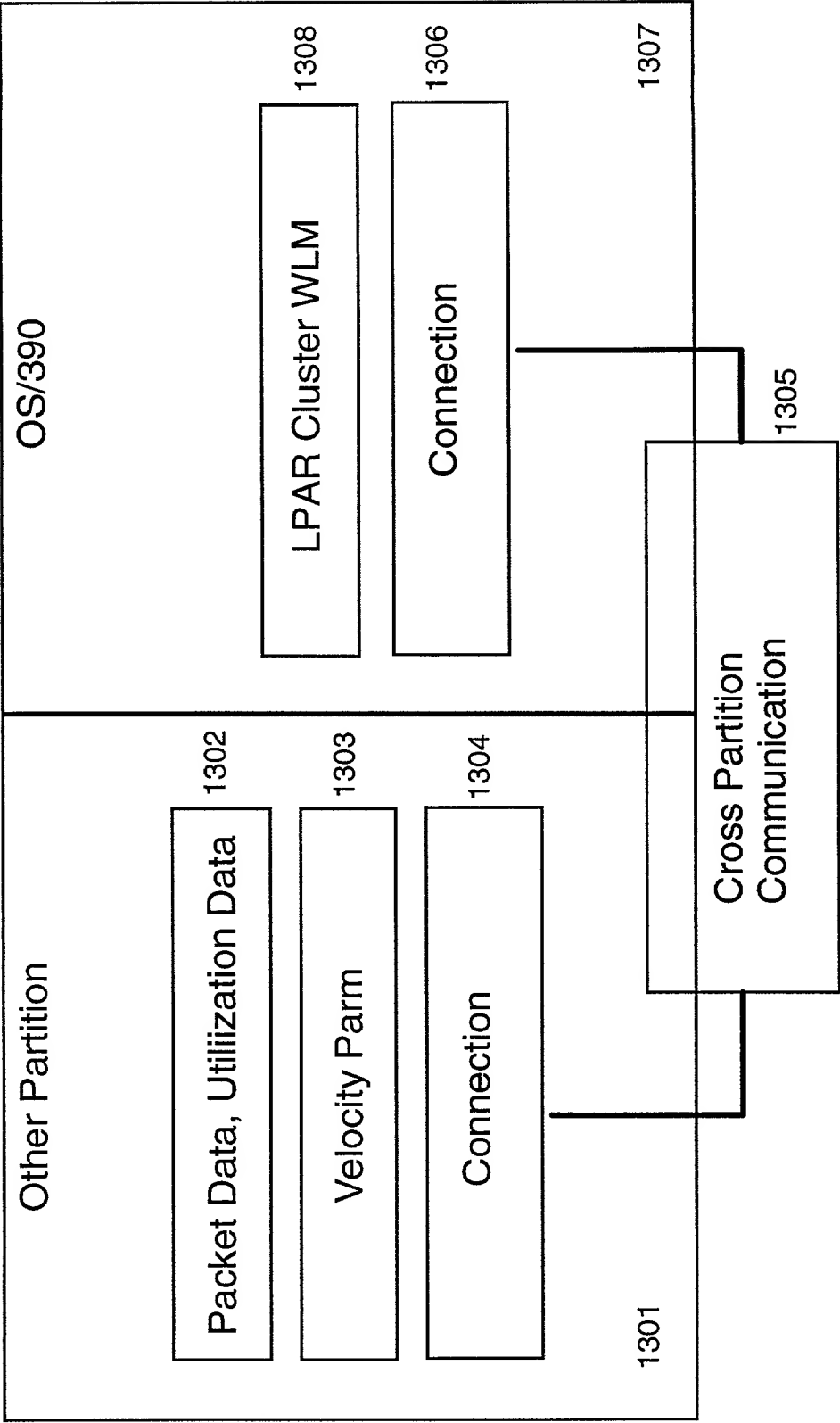


Figure 13

# Cum Packets v CPU

$$S = dT/dc$$

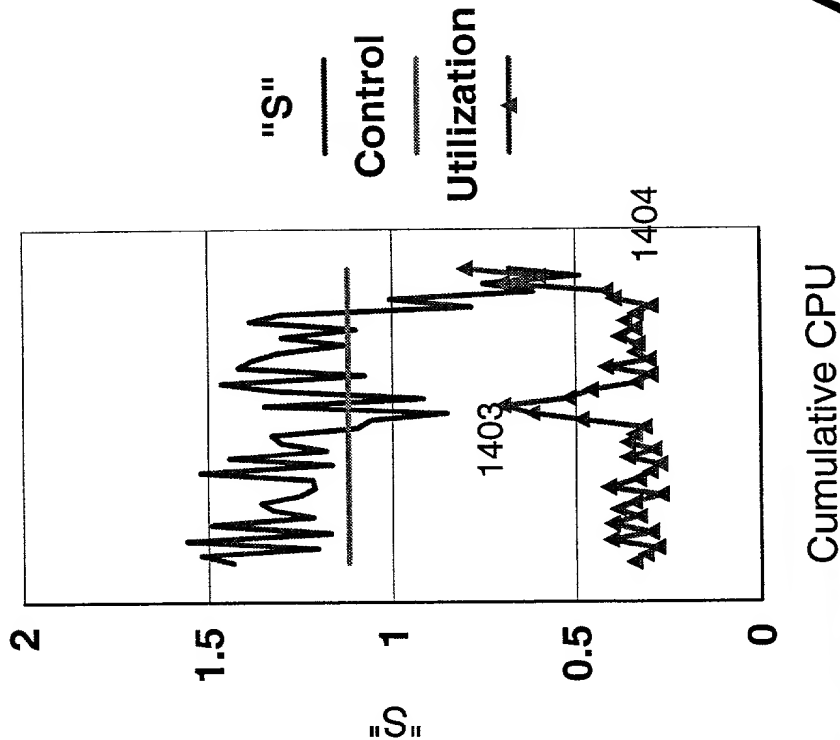
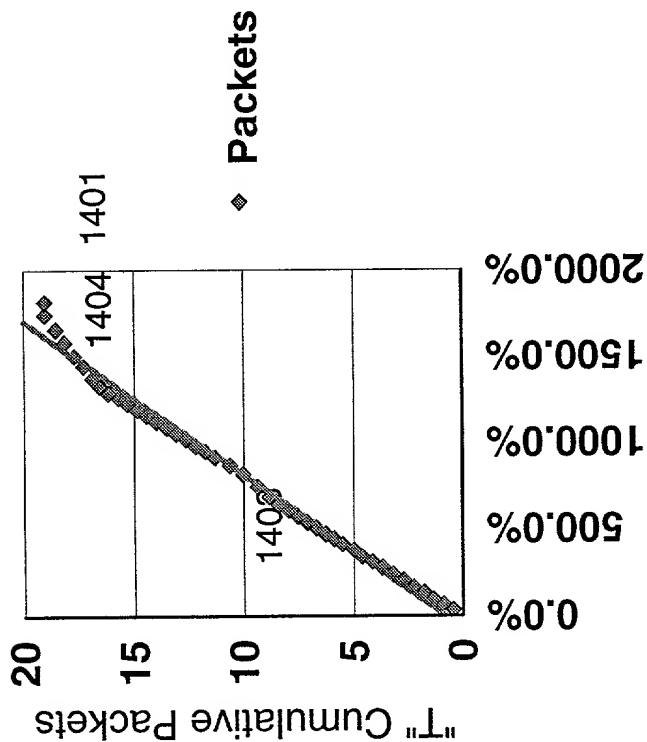


Figure 14

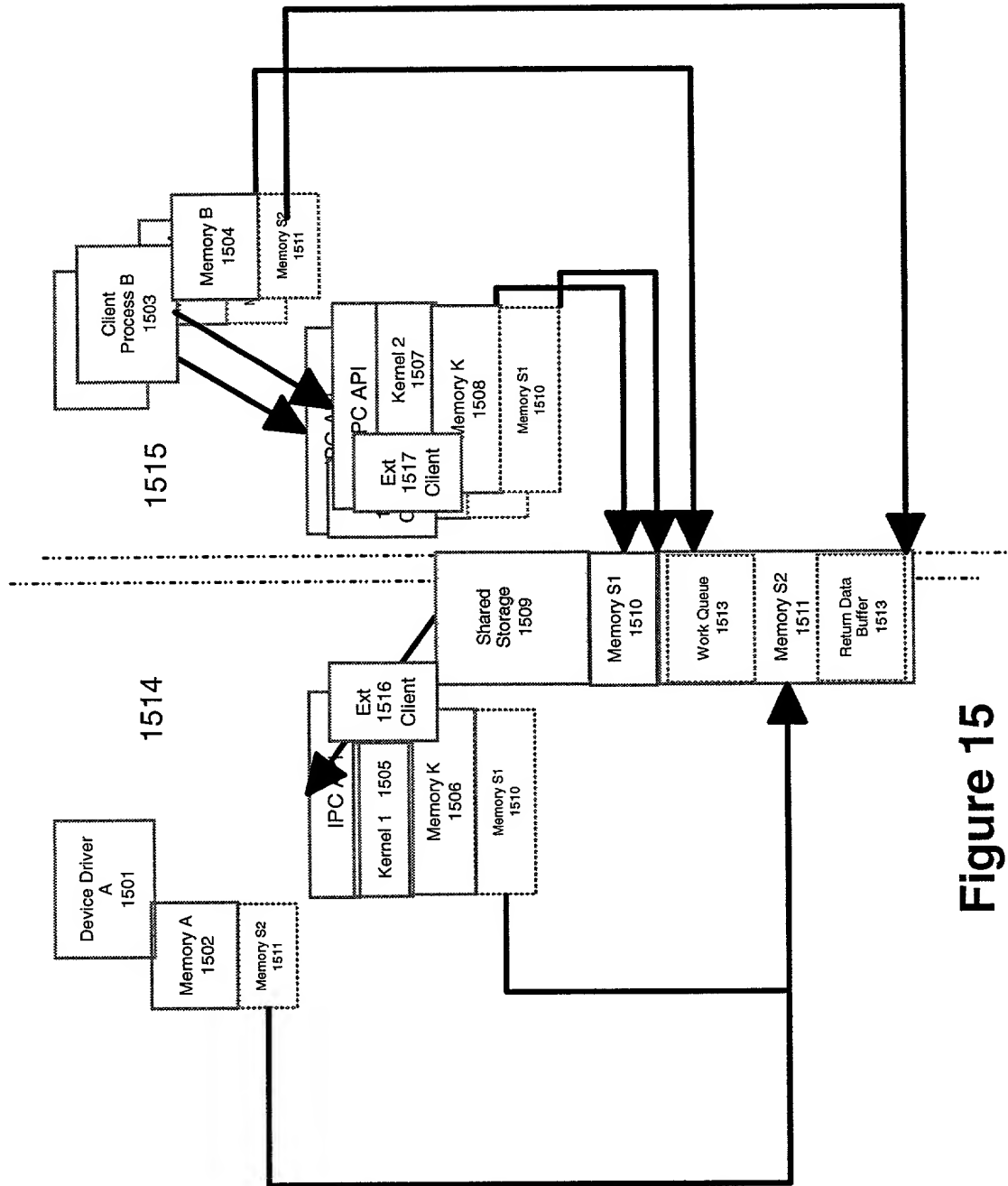


Figure 15



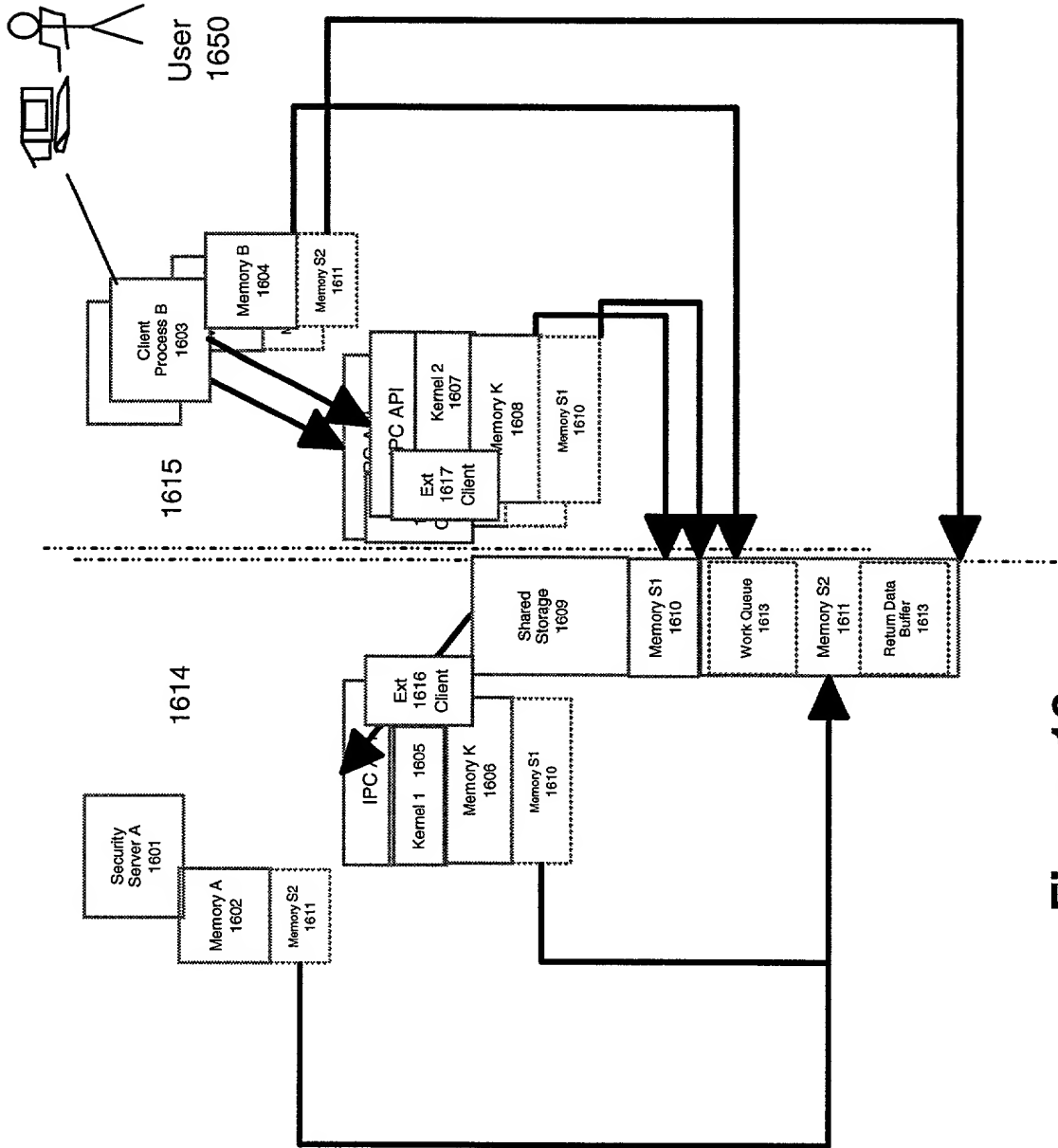


Figure 16